

1 / SUBROUTINE READRT
2 / LINKAGE: CALL READRT(ROUTES(POINTER), ROOT(1), EOROUT,
3 / DELIND, POINTER, CONNEX(1), EOCONN)
4 / IF DELIND =0 READ OUT IS DESTRUCTIVE.
5 / ON EXIT ACC. CONTAINS STATUS BIT (0 INVALID, 1 VALID)

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PAGE	2	READRT SRC	READRT
6			.TITLE READRT
7			.GLOBL READRT,.DA
8	00000	R 740040 A	READRT XX
9	00001	R 120300 E	JMS* .DA
10	00002	R 600012 R	JMP .+1+7
11	00003	R 000000 A	ROUTAD 0
12	00004	R 000000 A	ROOTAD 0
13	00005	R 000000 A	EORAD 0
14	00006	R 000000 A	INDAD 0
15	00007	R 000000 A	PTADD 0
16	00010	R 000000 A	CONNAD 0
17	00011	R 000000 A	EOCADD 0
18	00012	R 140276 R	DZM COUNT#
19	00013	R 750001 A	CLC
20	00014	R 040277 R	DAC STAT#
21	00015	R 200003 R	LAC ROUTAD
22	00016	R 340301 R	TAD (-1
23	00017	R 060302 R	DAC* (10 / ROUTES(POINTER-1) ADDR
24	00020	R 040003 R	DAC RSTART
25	00021	R 200004 R	LAC ROOTAD
26	00022	R 340301 R	TAD (-1
27	00023	R 060303 R	DAC* (11 / ROOT(0) ADDR
28	00024	R 220010 A	LAC* 10
29	00025	R 741100 A	SPA
30	00026	R 140277 R	DZM STAT
31	00027	R 040265 R	DAC DUMP
32	00030	R 640512 A	LRS 12 / SHIFT 10
33	00031	R 500304 R	AND (77 / 6 BITS
34	00032	R 060011 A	DAC* 11 / NO OF POINTS
35	00033	R 040271 R	DAC NPOINTS
36	00034	R 200265 R	LAC DUMP
37	00035	R 500305 R	AND (1777 / 10 BITS
38	00036	R 040267 R	DAC X1
39	00037	R 060011 A	DAC* 11
40	00040	R 220010 A	LAC* 10
41	00041	R 040266 R	DAC GAPP
42	00042	R 500305 R	AND (1777 / 10 BITS
43	00043	R 060011 A	DAC* 11
44	00044	R 040270 R	DAC Y1
45	00045	R 200271 R	LAC NPOINTS
46	00046	R 740001 A	CMA
47	00047	R 340306 R	TAD (2 / -NO OF SEGS
48	00050	R 040271 R	DAC NPOINTS
49	00051	R 440276 R	LOOP ISZ COUNT
50	00052	R 220010 A	LAC* 10
51	00053	R 040265 R	DAC DUMP
52	00054	R 740100 A	SMA
53	00055	R 600060 R	JMP .+3
54	00056	R 200276 R	LAC COUNT
55	00057	R 040277 R	DAC STAT
56	00060	R 200265 R	LAC DUMP
57	00061	R 640516 A	LRS 16

PAGE	3	READRT SRC	READRT
58		00062 R 500307 R	AND 17
59		00063 R 060011 A	DAC* 11 / SIDE
60		00064 R 200265 R	LAC DUMP
61		00065 R 640514 A	LRS 14
62		00066 R 500310 R	AND (3
63		00067 R 040272 R	DAC MODE / TYPE OF SEGMENT
64		00070 R 240310 R	XOR (3
65		00071 R 740200 A	SZA
66		00072 R 600103 R	JMP XORY / NOT XY ROUTE
67		00073 R 200265 R	LAC DUMP
68		00074 R 500305 R	AND (1777 / AND:L 1023
69		00075 R 060011 A	DAC* 11
70		00076 R 040267 R	DAC X1
71		00077 R 220010 A	LAC* 10
72		00100 R 060011 A	DAC* 11
73		00101 R 040270 R	DAC Y1
74		00102 R 600124 R	JMP FINISH
75		00103 R 200272 R	XORY LAC MODE
76		00104 R 500311 R	AND (1
77		00105 R 740200 A	SZA
78		00106 R 600116 R	JMP MODE1 / MODE=1
79		00107 R 200267 R	LAC X1
80		00110 R 060011 A	DAC* 11
81		00111 R 200265 R	LAC DUMP
82		00112 R 500305 R	AND (1777
83		00113 R 060011 A	DAC* 11
84		00114 R 040270 R	DAC Y1
85		00115 R 600124 R	JMP FINISH
86		00116 R 200265 R	MODE1 LAC DUMP
87		00117 R 500305 R	AND (1777
88		00120 R 060011 A	DAC* 11
89		00121 R 040267 R	DAC X1
90		00122 R 200270 R	LAC Y1
91		00123 R 060011 A	DAC* 11
92		00124 R 440271 R	FINISH ISZ NPOINTS
93		00125 R 600051 R	JMP LOOP
94		00126 R 220006 R	LAC* INDAD
95		00127 R 741200 A	SNA /NON DESTRUCTIVE
96		00130 R 600134 R	JMP DESTR
97		00131 R 200277 R	LAC STAT
98		00132 R 740001 A	CMA
99		00133 R 620000 R	JMP* READRT /EXIT
100		00134 R 200266 R	DESTR LAC GAPP
101		00135 R 640512 A	LRS 12 / SHIFT 10
102		00136 R 500312 R	AND (377 / 8 BITS
103		00137 R 740031 A	TCA
104		00140 R 040266 R	DAC GAPP / HOLE SIZE IN ROUTES ARRAY
105		00141 R 200003 R	LAC RSTART
106		00142 R 060303 R	DAC* (11 / ROUTES(POINTER-1)
107		00143 R 220005 R	LAC* EORAD / EOROUT
108		00144 R 340266 R	TAD GAPP
109		00145 R 740001 A	CMA

PAGE	4	READRT	SRC	READRT
110		00146 R	360007 R	TAD* PTADD
111		00147 R	040271 R	DAC NPOINTS / -(NO OF WORDS TO COPY + 1)
112		00150 R	220010 A	RPACK LAC* 10
113		00151 R	060011 A	DAC* 11
114		00152 R	440271 R	ISZ NPOINTS / SKIP WHEN DONE
115		00153 R	600150 R	JMP RPACK
116				/
117				/ START UPDATING CONNEX ARRAY
118				/
119		00154 R	220005 R	LAC* EORAD
120		00155 R	340266 R	TAD GAPP
121		00156 R	060005 R	DAC* EORAD
122		00157 R	220007 R	LAC* PTADD
123		00160 R	040273 R	DAC PPLUS / POINTER
124		00161 R	740031 A	TCA
125		00162 R	040274 R	DAC PMIN / - POINTERD
126		00163 R	220011 R	LAC* EOCADD
127		00164 R	740001 A	CMA
128		00165 R	340306 R	TAD (2
129		00166 R	040271 R	DAC NPOINTS / - CONNEX ARRAY SIZE
130		00167 R	741200 A	SNA
131		00170 R	600224 R	JMP CENDS
132		00171 R	220010 R	CLUP LAC* CONADD
133		00172 R	500313 R	AND (???
134		00173 R	740031 A	TCA
135		00174 R	040275 R	DAC NOFCN / - NO OF CONNS
136		00175 R	440010 R	LUPC ISZ CONADD /SCAN CONNEXIONS
137		00176 R	440271 R	ISZ NPOINTS
138		00177 R	440271 R	ISZ NPOINTS
139		00200 R	440271 R	ISZ NPOINTS
140		00201 R	440010 R	ISZ CONADD
141		00202 R	220010 R	LAC* CONADD
142		00203 R	652000 A	LMQ / = MOVE 18 RIGHT
143		00204 R	440010 R	ISZ CONADD
144		00205 R	220010 R	LAC* CONADD
145		00206 R	744010 A	CLL!RAL
146		00207 R	742010 A	RTL
147		00210 R	640614 A	LLS 14 / SBL 12
148		00211 R	500314 R	AND (37777 / 14 BITS
149		00212 R	340274 R	TAD PMIN
150		00213 R	741200 A	SNA / NON ZERO
151		00214 R	600227 R	JMP THISUN / ACTUAL ROUTE
152		00215 R	740100 A	SMA / AC-VE
153		00216 R	600242 R	JMP UPDATE
154		00217 R	440275 R	RETUN ISZ NOFCN
155		00220 R	600175 R	JMP LUPC
156		00221 R	440010 R	ISZ CONADD
157		00222 R	440271 R	ISZ NPOINTS
158		00223 R	600171 R	JMP CLUP
159		00224 R	200277 R	CENDS LAC STAT
160		00225 R	740001 A	CMA
161		00226 R	620000 R	JMP* READRT

PAGE	5	READRT	SRC	READRT
162		00227	R 220010	R THIS SW LAC* CONADD
163		00230	R 500315	R AND (177777 / 16 BITS
164		00231	R 060010	R DAC* CONADD
165		00232	R 200301	R LAC (-1
166		00233	R 340010	R TAD CONADD
167		00234	R 040010	R DAC CONADD
168		00235	R 220010	R LAC* CONADD
169		00236	R 500304	R AND (77
170		00237	R 060010	R DAC* CONADD / PTR=0
171		00240	R 440010	R ISZ CONADD
172		00241	R 600217	R JMP RETUN
173		00242	R 340273	R UPDATE TAD PPLUS
174		00243	R 340266	R TAD GAPP / NEW ROUTES POINTER
175		00244	R 040006	R DAC INDAD
176		00245	R 640514	A LRS 14
177		00246	R 200010	R LAC CONNAD
178		00247	R 340301	R TAD (-1
179		00250	R 040010	R DAC CONNAD
180		00251	R 641002	A LACQ
181		00252	R 060010	R DAC* CONNAD
182		00253	R 200006	R LAC INDAD
183		00254	R 640604	A LLS 4
184		00255	R 500316	R AND (600000
185		00256	R 652000	A LMQ
186		00257	R 440010	R ISZ CONNAD
187		00260	R 220010	R LAC* CONNAD
188		00261	R 500315	R AND (177777
189		00262	R 640002	A OMQ
190		00263	R 060010	R DAC* CONNAD
191		00264	R 600217	R JMP RETUN
192			000010	R CONADD=CONNAD
193			000003	R RSTART=ROUTAD
194		00265	R 740040	A DUMP XX
195		00266	R 740040	A GAPP XX
196		00267	R 740040	A X1 XX
197		00270	R 740040	A Y1 XX
198		00271	R 740040	A NPOINTS XX
199		00272	R 740040	A MODE XX
200		00273	R 740040	A PPLUS XX
201		00274	R 740040	A PMIN XX
202		00275	R 740040	A NOFCN XX
203			000000	A .END
		00300	R 000300	E *E
		00301	R 777777	A *L
		00302	R 000010	A *L
		00303	R 000011	A *L
		00304	R 000077	A *L
		00305	R 001777	A *L
		00306	R 000002	A *L
		00307	R 000007	A *L
		00310	R 000003	A *L
		00311	R 000001	A *L

PAGE	6	READRT SRC	READRT
		00312 R 000377 A *L	
		00313 R 000777 A *L	
		00314 R 037777 A *L	
		00315 R 177777 A *L	
		00316 R 600000 A *L	
		SIZE=00317	NO ERROR LINES

PAGE 7 READRT CROSS REFERENCE

CENDS	00224	131	159*						
CLUP	00171	132*	158						
CONADD	000010	132	136	140	141	143	144	156	162
		164	166	167	168	170	171	192*	
CONNAD	00010	16*	177	179	181	186	187	190	192
COUNT	00276	18	49	54					
DESTR	00134	96	100*						
DUMP	00265	31	36	51	56	60	67	81	86
		194*							
EOCADD	00011	17*	126						
EORAD	00005	13*	107	119	121				
FINISH	00124	74	85	92*					
GAPP	00266	41	100	104	108	120	174	195*	
INDAD	00006	14*	94	175	182				
LOOP	00051	49*	93						
LUPC	00175	136*	155						
MODE	00272	63	75	199*					
MODE1	00116	78	86*						
NOFCN	00275	135	154	202*					
NPOINT	00271	35	45	48	92	111	114	129	137
		138	139	157	198*				
PMIN	00274	125	149	201*					
PPLUS	00273	123	173	200*					
PTADD	00007	15*	110	122					
READRT	00000	6	7	8*	99	161			
RETUN	00217	154*	172	191					
ROOTAD	00004	12*	25						
ROUTAD	00003	11*	21	193					
RPACK	00150	112*	115						
RSTART	000003	24	105	193*					
STAT	00277	20	30	55	97	159			
THISUN	00227	151	162*						
UPDATE	00242	153	173*						
XORY	00103	66	75*						
X1	00267	38	70	79	89	196*			
Y1	00270	44	73	84	90	197*			
.DA	00300	7	9						